Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** Not Yet Assigned Filing Date TRANSMITTAL Concurrently Herewith First Named Inventor **FORM** Joseph J. BARCHI, Jr. et al. Art Unit Not Yet Assigned (to be used for all correspondence after initial filing) **Examiner Name** Not Yet Assigned Attorney Docket Number Total Number of Pages in This Submission 31978-230391 ENCLOSURES (Check all that apply) After Allowance Communication x | Fee Transmittal Form Drawing(s) x Fee Attached Appeal Communication to Board of Licensing-related Papers Appeals and Interferences Appeal Communication to TC Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a After Final Proprietary Information Provisional Application Power of Attorney, Revocation Affidavits/declaration(s) Status Letter Change of Correspondence Address X Other Enclosure(s) (please **Extension of Time Request** Terminal Disclaimer Identify below): Transmittal Letter to the DO/EO/US **Express Abandonment Request** Request for Refund Concerning Submission Under 35 U.S.C. § 371 (including statement of Information Disclosure Statement CD, Number of CD(s) fees): Return Receipt Postcard; Certified Copy of Priority Application Data Sheet; and Landscape Table on CD Document(s) **Prelimnary Statement** Reply to Missing Parts/ Remarks Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name VENABLE LLP Signature Printed name Lars H. Genieser Date Reg. No. May 5, 2006 46,722

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PTO-1390 (Rev. 07-2005) Approved for use through 03/31/2007. OMB 0651-0021 U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

## Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. ATTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES 31978-230391 DESIGNATED/ELECTED OFFICE (DO/EO/US) PLICATION NO. (IT known), site of CFE 1.5) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 e signed INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE DATE CLAIMED PCT/US2003/034897 November 5, 2003 November 5, 2003 TITLE OF INVENTION BIOFUNCTIONALIZED QUANTUM DOTS FOR BIOLOGICAL IMAGING APPLICANT(S) FOR DO/EO/US Joseph J. BARCHI, Jr. et al. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. Х This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). 4. X 5. X A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) is attached hereto (required only if not communicated by the International Bureau). X has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. x have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 9. X An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary statement. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 18. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).



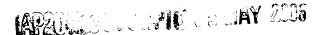
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Under the Paperwo	ork Reduction A	ct of 1995, no persons	are required to respond to	a collection of information	unless it displays a v	alid OMB control number.		
U.S. APPLICATION AND A See OCFFE SU D Not Yet Assigned			INTERNATIONAL APPLIE	CATION NO. 2003/034897		ATTORNEY'S DOCKET NUMBER 31978-230391		
20. Other i	tems or info	mation:						
The follo	owing fees t	CALCULATION	IS PTO USEONLY					
The following fees have been submitted 21. x Basic national fee (37 CFR 1.492(a))						00		
22. X Exam If the written opin prepared by If All other situation	PEA/US indica	\$ 200.0	00					
If the written opin IPEA/US i Search fee (37 C Internation International Sea	ndicates all cla FR 1.445(a)(2 nal Searching / rch Report pre communicate	\$ 100.0	\$ 100.00					
	TOTAL OF 2	\$ 600.0	\$ 600.00					
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets Extra Sheets Number of each additional 50 or fraction RATE								
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		g any of the search fee nt of the national stage	e, examination fee, or the (37 CFR 1.492(h)).	oath or declaration	\$			
CLAIMS		NUMBER FILED	NUMBER EXTRA	RATE	· · · · · · · · · · · · · · · · · · ·			
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		= \$ 1050.0	00					
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$			
				TOTAL NATIONAL FEE	= \$	\$ 1050.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					\$	\$		
		\$	\$					
TOTAL FEES ENCLOSED =					: \$			
					Amount to be refunded:	\$		
					Amount to be charged	\$ 1050.00		
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a A check in the amount of \$	to cover the ab/	CURLLY:	WIND OF WALL EQUO					
b. X Please charge my Deposit Account No. 22-6 A duplicate copy of this sheet is enclosed.	0261 in the amou	nt of \$1050.00	to cover the above fees.					
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 22-0261 . A duplicate copy of this sheet is enclosed.								
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038								
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed an granted to restore the International Application to pending status.								
		Jan						
SEND ALL CORRESPONDENCE TO:	_	MINT.						
		SIGNATURE						
	-	Lars H. Genieser NAME						
CUSTOMER NUMBER: 26694								
Dated May 5 2000	_		,722					
Dated: May 5, 2006		REGISTRATION NU	MBER					



PTO/SB/17 (01-06)
Approved for use through 7/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Pa	perwork Reduction Act of	f 1995, no person are	required to	respond to a collect				control number	
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).  FEE TRANSMITTAL  For FY 2006				Complete if Known					
						Not Yet A signed.			
						May 5, 2000			
	101112	.000		Examiner Name			Joseph J. BARCHI, Jr. et al.		
				Not Yet Assigned					
Applicant claims small entity status. See 37 CFR 1.27  TOTAL AMOUNT OF PAYMENT (\$) 1050.00				Art Unit		Not Yet Assigned 31978-230391			
		(\$) 1050.0		Attorney Docket No. 31978-230391					
METHOD OF PAYMENT (check all that apply)									
Check Credit Card Money Order None Other (please identify):									
X Deposit Account Deposit Account Number: 22-0261 Deposit Account Name: Venable LLP									
For the	above-identified dep	oosit account, the	Director is	s hereby authoriz	zed to: (chec	k all that apply)			
c	harge fee(s) indicate	ed below		Char	ge fee(s) inc	licated below, ex	cept for t	he filing fee	
Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17									
FEE CALCU	LATION (All the f	ees below are	due upo	n filing or ma	y be subje	ct to a surcha	arge.)		
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ĺ	F	ILING FEES		ARCH FEES		IATION FEES			
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Design	200		100		130	65			
Plant	200		300		160	80			
Reissue	300		500		600	300			
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3. APPLICATION SIZE FEE  If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)									
61 - 100 = /50 (round up to a whole number) x =									
Non-English Specification, \$130 fee (no small entity discount)									
Other (e.g., late filing surcharge): National Stage Filing Fees \$600.00									
SUBMITTED BY GOLD									
Signature	Mills	dalan -		Registration No. (Attorney/Agent)	46,722	Telephone	(202) 34	4-4000	
Name (Print/Type)	Lars H. Geniese	1				Date	May 5,	2006	